

CALL FOR PAPERS**Paper Submission Deadline** May 30, 2014**The 12th EUROGRAPHICS Workshop on Graphics and Cultural Heritage**

Location	Darmstadt, Germany
Date	6 th – 8 th October 2014
Web	http://diglib.eg.org/GCH2014
Twitter	@EGGCH2014
Facebook	https://www.facebook.com/groups/253108928202252/

Invitation

You are cordially invited to contribute to the **12th EUROGRAPHICS Workshop on Graphics and Cultural Heritage (GCH)** which, for the first time, will take place in Darmstadt, Germany.

In the past, cultural Heritage scientists as well as ICT experts have collaborated to find solutions to optimize all aspects of digitally preserving, managing and delivering cultural information to new generations, but still many unsolved problems remain.

Among the challenges the community faces are fast and economic, high quality, large scale 2D/3D digitization, certification, classification, annotation, visualization, storage and faithful 2D/3D replication of cultural heritage artefacts, the definition of digitization and preservation strategies for museum collections, the definition of standard data formats for digital models, the development of longterm data storage technologies as well as standard legislation for digital model rights.

In continuation to last years' workshop series and to overcome the aforementioned challenges, we would like to invite and welcome all relevant stakeholders from cultural heritage institutions, academia, research, industry, economy, policy and law makers to create synergies, participate and contribute to the European Forum for Information and Communication Technologies (ICT) applied to the Cultural Heritage domain. Following a long tradition, this event focuses on the integration of digital tools and solutions into the practice of Cultural Heritage, Archaeology and Museums.

Where?

GCH 2014 will take place in Darmstadt, the birth place of the last Empress of Russia, Tsarina Alexandra Romanov. Darmstadt is famous for its 'Jugendstil' (art nouveau) buildings. The establishment of the Mathildenhöhe artists colony more than 100 years ago played its part in raising Darmstadt to prominence. Magnificent art nouveau houses give this hill of muses an unmistakable character. Through science, literature, art and architecture, Darmstadt has developed a wholly unique appeal that has earned it much acclaim. Today, Darmstadt boasts a great diversity of science and art, many publishing houses and graphic design studios, as well as the European Space Agency's satellite control centre and internationally acclaimed institutes for ICT, literature, art and music - all of this reflected in Darmstadt's official name as 'City of Science'.



What ?

The 12th EUROGRAPHICS Workshops on Graphics and Cultural Heritage aims to foster an international dialogue between the different fields of expertise and in particular allow ICT experts to have a better understanding of the critical requirements of CH scientists for managing, processing and delivering cultural information to a broader audience. Focus of this year's forum is to present and showcase new developments within the overall process chain, from data acquisition, 3D documentation, analysis and synthesis, semantical modelling, data management, to the point of virtual museums or new forms of interactive presentations and 3D printing solutions. GCH 2014 therefore provides scientists, engineers and CH managers a possibility to discuss new ICT technologies applied to data modelling, reconstruction and processing, digital libraries, virtual museums, interactive environments and applications for CH, ontologies and semantic processing, management and archiving, standards and documentation, as well as its transfer into practice. The result of this interaction will be disseminated through use of innovative digital techniques in research and education for Cultural Heritage and through publications: on-going project results, preliminary ideas and works in progress, and overviews of research in the use of digital technology in the context of Cultural Heritage.

We therefore seek original, innovative and previously unpublished contributions in theoretical or applied areas of the digital cultural heritage domain, challenging the state of the art solutions and leveraging new ideas for future developments.

In particular:

- 2/3/4D data capturing and processing in Cultural Heritage
- Material acquisition and presentation
- Spatial and mobile augmentation of physical collections with digital presentations
- Data acquisition technologies
- Digital libraries and 3D documents
- Digital capture and annotation of intangible heritage (performance, audio, dance, oral)
- Interactive environments and applications for Cultural Heritage
- Visualization and Virtual Museums
- 3D printing based on new appearance models
- Preservation and digital archiving of artefacts
- Metadata, classification schemes, ontologies and semantic processing
- Multilingual applications, tools and systems for Cultural Heritage
- Multimedia data acquisition, management and archiving
- Multi-modal interfaces and rendering for Cultural Heritage
- On-site and remotely sensed data collections
- Serious games in Cultural Heritage
- Storytelling and design of heritage communications
- Standards and documentation
- Usability, effectiveness and interface design for Cultural Heritage Applications
- Tools for education and training in Cultural Heritage
- New business models and technology transfer into practice

GCH 2014 will also include "**State-of-the-Art Reports**", inspired by the EG STARs. These are longer papers providing useful novel overviews of research in the fields of computer graphics, computer science and related fields that can benefit the multidisciplinary nature of GCH. They are survey papers in what the community considers important areas that have not been covered before or recently. Their aim is to give a detailed account of the principles, algorithms and open problems of a research area, so that an interested reader can quickly become up to speed in this field. We warmly encourage all colleagues to submit to the STAR reports. Two STAR reports will be selected by peer review and published in the local proceedings together with the short and project papers. GCH-STAR authors will present their work within a 60 minute presentation during GCH 2014

Contributions ?

Full research papers (max 10 pages)

presenting new innovative results: these papers will be **published by Eurographics** in the **EG Symposium Series** (diglib.eg.org/EG/DL/WS/VAST).

Short papers (max 4 pages)

resenting preliminary results and work-in-progress or focusing on on-going projects, the description of project organization, use of technology, and lesson learned. These papers will be published in the **"Projects & Short Papers" proceedings** volume.

GCH-STAR reports

providing a useful novel overview of research in the fields of computer graphics, computer science and related fields that can benefit the multidisciplinary nature of this workshop series. We expect the STAR submissions as **full version** being available **at submission deadline**. Please, provide an extended abstract at abstract submission (max. 2 pages)

Tutorials and Workshops

the conference will also host half-day and full-day working sessions that provide an opportunity to get in touch with ongoing projects and cutting-edge research in the field of digital technologies for Cultural Heritage. You should download the **form** available on the web site, **fill it in and submit** it through the SRM submission system of GCH.

The best papers of the Conference will be proposed for an extended submission to **ACM Journal on Computing and Cultural Heritage (JOCCH)** (<http://jocch.acm.org/>).

Important Dates ?

May 23	Abstract (Only for internal use)
May 30	Full Papers, Short Papers
June 30	STAR reports, as full paper submission
July 2	Workshops & Tutorials, Exhibitions
July 31	Notification
Sept 1	Final Camera Ready due for accepted works, Early registration

GCH 2014 Committee

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Dieter Fellner (TU Darmstadt/Fraunhofer IGD, Germany)
Roberto Scopigno (CNR, Pisa, Italy)

Program Co-Chairs

Reinhard Klein (Univ. Bonn, Germany)
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Local Organising Committee

Holger Graf Arjan Kuijper Stefanie Behnke

Looking forward to meet you in Darmstadt !

The Conference Chairs:

Dieter Fellner Roberto Scopigno

Pedro Santos Reinhard Klein

In Cooperation



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